

## Wednesday May 30<sup>th</sup> 2018

### Welcome and opening remarks

09.30

*Chairs: Tore B. Stage, University of Southern Denmark and Kim Brosen, University of Southern Denmark*

### Plenary 1 -Novel methods for assessing drug toxicity

09.45

*Chair: Tore B. Stage, University of Southern Denmark*

iPSC-derived sensory neurons to assess chemotherapy-induced sensory neuropathies

*Deanna L. Kroetz, UCSF*

Novel in vitro systems for better prediction of drug metabolism and hepatotoxicity

*Magnus Ingelman-Sundberg, Karolinska Institutet*

### Coffee

11.15

### Keynote 1 - Pharmacogenetics of glucose-lowering drugs

11.45

*Chair: Kim Brosen, University of Southern Denmark*

Pharmacogenetics of glucose-lowering drugs

*Ewan Pearson, Dundee University*

### Lunch (possible industry-sponsored seminar)

12.45

### Plenary 2 - Personalized medicine in oncology – success stories from the real World

13.45

*Chair: Tore B. Stage, University of Southern Denmark*

Phenotyping and genotyping in childhood leukemia - precision medicine in an international setting

*Kjeld Schmiegelow, Copenhagen University Hospital*

**Parallel 1 - Next generation sequencing and rare variants in personalized medicine**

*Chair: Magnus Ingelman-Sundberg, Karolinska Institutet*

Integrating rare genetic variability into preemptive pharmacogenomic advice

*Volker Lauschke, Karolinska Institutet*

Twin studies and systems pharmacology as innovative tools for clinical pharmacokinetics

*Matthias Schwab, Dr. Margarete Fischer-Bosch-Institute of Clinical Pharmacology Stuttgart and University of Tuebingen, Germany*

**Parallel 2 - New aspects of P450 variability**

*Chair: Janne T. Backman, University of Helsinki*

CYP2D6 pharmacogenetics: from a scientific cornucopia towards routine clinical practice

*Andrea Gaedigk, Children's Mercy Kansas City*

Clinical significance of cytochrome P450 mediated drug interactions

*Kim Brøsen, University of Southern Denmark*

Cytochrome P450 phenotyping and the microdosing approach

*Gerd Mikus, Heidelberg University Hospital*

14.45

**Coffee and poster walks**

16.45

**Beer tasting (additional registration required)**

20.00

## Thursday May 31<sup>st</sup> 2018

### Plenary 2 - Pharmacoeigenetics and biomarkers

09.00

*Chairs: Ingolf Cascorbi, University of Kiel and Magnus Ingelman-Sundberg, Karolinska Institutet*

miRNAs as mediators of drug resistance

*Ingolf Cascorbi, University of Kiel*

DNA Methylation of ADME Genes: Clinical implications

*Pascale Fisel, Dr. Margarete Fischer-Bosch-Institute of Clinical Pharmacology Stuttgart and University of Tuebingen, Germany*

Diagnostic and prognostic epigenetic biomarkers in cancer.

*Carmen Jerónimo, University of Porto*

### Coffee

11.00

### Parallel 3 - Role of the gut microbiome in ADME

*Chairs: Mette Marie Hougard Christensen, Odense University Hospital and Troels Bergmann, Odense University Hospital*

Gut microbiome interactions with drug metabolism, efficacy, and toxicity

*Ian Wilson, Imperial College London*

Gut wall metabolism

*Oliver Hatley, Certara*

Consequences of bariatric surgery on drug transporter expression and function

*Stefan Oswald, University Medicine Greifswald*

### Parallel 4 - Personalized medicine: Cardiovascular disease

11.30

*Chair: Niels Jessen, Aarhus University*

Protein biomarkers for cardiovascular conditions - perspectives for personalized medicine?

*Lars M. Rasmussen, Odense University Hospital*

Inherited cardiac diseases and personalized medicine

*Henning Bundgaard, Copenhagen University Hospital*

### Lunch

13.30

14.30

**Key note 2 - The role of drug transporters in chemotherapy-induced toxicity**

*Chair: Tore B. Stage, University of Southern Denmark*

The role of drug transporters in chemotherapy-induced toxicity

*Alex Sparreboom, Ohio University*

**Poster viewing**

15.30

**Conference dinner - Hotel Storebælt (additional registration required)**

18.30

## Friday June 1<sup>st</sup> 2018

### Plenary 3 - Drug transporters

09.00

*Chair: Mikko Niemi, University of Helsinki*

Assessing OCT-function in vivo using 11C-labeled metformin

*Niels Jessen, Aarhus University*

Pharmacogenomics of transporters; OATP1B1, BCRP, rare variants

*Mikko Niemi, University of Helsinki*

### Coffee

11.00

### Parallel 5 - Using big data to develop personalized medicine

*Chairs: Kim Brøsen, University of Southern Denmark and Henrik Berg Rasmussen, University of Copenhagen*

Personalized Medicine and big data in Immune Deficiency

*Jens Lundgren, University of Copenhagen*

Analyzing drug response data from medical records

*Søren Brunak, University of Copenhagen*

Danish National Health Registries and Pharmacogenetics in Psychiatry:  
iPsych2012

*Christiane Gasse, Aarhus University*

### Parallel 6 - Pharmacogenetics and adverse drug reactions

11.30

*Chair: Per Damkier, Odense University Hospital*

Challenges to the clinical utility of PGx in the prevention of adverse drug reactions

*Henk-Jan Guchelaar, Leiden University Medical Center*

Advances in PGx of adverse drug reactions

*Munir Pirmohamed, University of Liverpool*

The genetic basis of drug-induced liver injury

*Ann Daly, University of Newcastle*

### Closing remarks and awards

13.30

### Lunch – grab and go

14.00